

BOOK NOTICES

Blackwell Publishing

ROBERT L. ZIMDAHL. 2004. **Weed-Crop Competition, A Review. Second Edition.** (ISBN 0-8138-0279-2, hbk.). Blackwell Publishing Professional, 2121 State Avenue, Ames, IA 50014, U.S.A. (Orders: 1-800-862-6657, 1-515-292-3348 fax, www.blackwellprofessional.com). \$54.99, 224 pp., graphs, 7" × 10".

Publisher Comments: "For the past 20 years, the first edition of this text has been widely cited as an authoritative academic reference. The latest edition continues the tradition set by the original book and covers weed science research that has been published since 1980. This book aims to reduce the instance of research duplication—saving scientists and supporting institutions time and money."

"Not only does the second edition of *Weed-Crop Competition* review, summarize, and combine current research, it critiques the research as well. This text has the potential to accelerate advancements in weed-crop competition, which remains an important factor affecting crop yields. Weed scientists, crop scientists, plant ecologists, sustainable agriculturists, and organic agriculturists will be well-pleased with this long overdue and much needed new edition."

Contents: 1) Introduction: An historical Perspective. 2) Definition of Plant Competition. 3) Competition in the Community. 4) Influence of Competition on the Plant. 5) The Effect of Weed Density. 6) The Effect of Competition Duration. 7) The Elements of Competition. 8) Weed Management Using the Principles of Competition. 9) Methods Used to Study Weed-Crop Competition. 10) Models and Modeling. 11) Conclusion: The Complexity of Competition.

NELS R. LERSTEN. 2004. **Flowering plant Embryology.** (ISBN 0-8138-2747-7, hbk.). Blackwell Publishing Professional, 2121 State Avenue, Ames, IA 50014, U.S.A. (Orders: 1-800-862-6657, 1-515-292-3348 fax, www.blackwellprofessional.com). \$79.99, 224 pp., b/w photos, line drawings, 7" × 10".

Publisher Comments: "This richly illustrated reference text, with more than 350 figures, presents general angiosperm embryology using examples from economically important plants. The unique focus of this book on economically significant plants makes *Flowering Plant Embryology* a "must-have" for all plant science researchers and students."

"Drawing from his career of teaching botany, and his original embryological research, Lersten emphasizes the plant species that affect human livelihood, including weeds, ornamentals, and other cultivated plants that are used for commercial products. Topics are treated with a uniformity of style that boosts comprehension, and technical terms are well-defined. The book presents research results, hypotheses, and speculations about why things are as they are, and also offers supporting facts and specific examples. This book provides a firm foundation for thorough understanding of embryological diversity among economic plants and belongs in the library of every plant scientist."

Contents: 1) Introduction. 2) Stamen and Androecium. 3) Pollen Development: Theme and Variations. 4) Pollen Development: Details of Stages. 5) Carpel and Gynoecium. 6) Ovule and Embryo Sac. 7) Pollination and Pollen: Stigma Interaction. 8) Pollen Germination, Pollen Tube Growth, and Double Fertilization. 9) Endosperm. 10) The Embryo.